### PATENT COOPERATION TREATY

## **PCT**

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D	1	7	MAR	2004	}
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Applica	nt's or a	gent's file reference			
XXX			FOR FURTHER AC	See Notific Preliminary	cation of Transmittal of International y Examination Report (Form PCT/IPEA/416)
International application No. PCT/IN 03/00148		plication No. 1148	International filing date (control of the control o	day/month/year)	Priority date (day/month/year) 05.06.2002
Internat	ional Pa	tent Classification (IPC) o	both national classification a	nd IPC	
C25B5	0/00				
Applicar					
THE A	DDITI	ONAL DIRECTOR (I	PR), DEFENCE et al.		
1. Ti	his inte uthority	rnational preliminary ex and is transmitted to ti	amination report has beer ne applicant according to A	prepared by this	International Preliminary Examining
	•		applicant according to 1	unole oo.	
0 7	ki. Der	ODT			
2. Ti	nis HEF	OR I consists of a tota	of 4 sheets, including thi	s cover sheet.	
		s report is also accomp	anied by ANNEXES, i.e. s	heets of the descr	iption, claims and/or drawings which have
	Dec	ii amenueu anu ale m	e basis for this report and on 607 of the Administrativ	ir chaate containir	a rootifications made before this Assistant
TI				e instructions und	ier the PCI).
	iese an	nexes consist of a tota	of sheets.		
3. Th	nis repo	rt contains indications	elating to the following iter	ms:	
1	$\boxtimes$	Basis of the opinion	_		
11		Priority			
111		Non-establishment o	opinion with regard to no	veltv. inventive ste	ep and industrial applicability
١٧		Lack of unity of inver		<b>,</b> ,	p and made and applicability
٧	$\boxtimes$	Reasoned statement citations and explana	under Rule 66.2(a)(ii) with tions supporting such stat	regard to novelty	, inventive step or industrial applicability;
Vi		Certain documents c			
VI			international application		
VI	🗆	Certain observations	on the international applic	ation	
Data of					
Date of submission of the demand				Date of completion o	of this report
22.12.2003					
				16.03.2004	
Name and malling address of the international			nai	Authorized Officer	
preliminary examining authority:  European Patent Office					CONTROL OF THE PROPERTY OF THE
D-80298 Munich Tel. +49 89 2399 - 0 Tx; 523656 epmu d Fax: +49 89 2399 - 4465		356 enmu d	Del Piero, G	Santa (Marie Paris)	
		•	Felephone No. +49 8	39 2399-8579	

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IN 03/00148

l.	Basis	of the	report
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 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	escription, Pages				
	1-	16	as published			
	CI	aims, Numbers				
	1-	10	as published			
	Dr	awings, Sheets				
	1/2	-2/2	as published			
2.	. Wi lan	With regard to the <b>language</b> , all the elements marked above were available or furnished to this Authority i language in which the international application was filed, unless otherwise indicated under this item.				
	Th	ese elements were a	vailable or furnished to this Authority in the following language: , which is:			
		the language of pub	plication of the international application (under Rule 48.3(b)).			
		the language of a tr Rule 55.2 and/or 55	anslation furnished for the purposes of international proliminary			
3.	Wit inte	h regard to any <b>nucl</b> ernational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:			
		contained in the inte	ernational application in written form.			
		filed together with the	ne international application in computer readable form.			
		furnished subseque	ntly to this Authority in written form.			
			ntly to this Authority in computer readable form.			
			the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.			
		The statement that the listing has been furn	the information recorded in computer readable form is identical to the written sequence ished.			
4.	The	amendments have r	resulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			

#### INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/IN 03/00148

This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims 1-10

No: Claims

Inventive step (IS)

Yes: Claims

1-10

Claims No:

Industrial applicability (IA)

Yes: Claims

1-10

No: Claims

2. Citations and explanations

see separate sheet

#### ٧.

- 1. Novelty of the present subject-matter is acknowledged on the basis of the presence of potassium permanganate in the mix.
- 2. The potassium permanganate double function of reactively suppressing the accumulation of native hydrogen (fig.2) while substaining the generation of heat over a longer period of time than was possible with prior formulations (fig.1) justifies the acknowledgment of an inventive step.

#### Other matters.

- 1. The process according to claim 10 requires the addition of 2-20wt% sodium silicate which, on the other hand, is only an optional component (0-20wt%) of the mix according to claim 1. It is therefore not clear whether this component is an essential feature of the mix according to the invention.
- 2. Since apparently no electrical energy is involved in the reactions of the components of the mix according to the invention, the expression "electrochemical" (and similar) used throughout the specification appears to be inaccurate.